Proposal Full View

Print

Applicant Information

Organization Name	Contra Costa Water District *
Tax ID	**946000489**
Proposal Name	Contra Costa Water District Stormwater Flood Management Proposal *
Proposal Objective	Through implementation of the Project, this Proposal will achieve the following key goals and objectives: * To advance the objectives of the IRWMP and further those projects collectively identified as regional priorities by the ECWMA. * To improve flood protection, water supply, and water quality for the community. * To provide for protection of the natural resources in East Contra Costa County. *

Budget

Other Contribution	$0.00
Local Contribution	$10,000,000.00
Federal Contribution	$0.00
Inkind Contribution	$0.00
Amount Requested	$10,000,000.00 *
Total Project Cost	$20,000,000.00 *

Geographic Information

Latitude *	DD(+/-) 37	MM 59	SS 2
Longitude *	DD(+/-) 121	MM 39	SS 7

Longitude/Latitude Clarification	Long: -121.652, Lat: 37.984	Location
County		Contra Costa *
Ground Water Basin		San Joaquin Valley-Tracy
Hydrologic Region		San Joaquin
Watershed	San Joaquin Delta	

Legislative Information

Assembly District	11th Assembly District,15th Assembly District *
Senate District	7th Senate District *
US Congressional District	District 10 (CA) *

Project Information

Project Benefits Information

Project Name: Contra Costa Canal Levee Elimination and Floo

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Flood Protection	4480	Implementation of the Project will result in a present value of nearly $3.6 M in avoided flood damages (expressed in present value terms). The Canal was developed as part of the Central Valley Project in the 1930s and is an integral part of the water delivery system for CCWD. The unlined portion begins at Rock Slough and continues for four miles until it connects to the 44.6-mile concrete-lined Canal. The Canal levees in the unlined portion are in poor condition; they are not designed to provide flood protection and are not seismically sound. They are composed of unconsolidated dredging spoils from the original construction. At least seven square miles are currently at risk of flooding if the Canal levees failed, including housing developments, roads, small businesses, working farms and a tidal marsh restoration project.
	Water		The project will reduce salinity in CCWD's supplies by replacing a stretch of unlined, open canal with a pipeline, eliminating the intrusion of higher salinity

Primary	Quality: Constituents -- Salinity	0	groundwater. The project will generate salinity reductions significant enough to reduce necessary upstream reservoir releases needed to meet chloride objectives at Rock Slough and improving water quality for 550,000 customers in the CCWD service area.
Primary	Levee Repair, Strengthen, Raised	0.80	The existing berms and levees along the Contra Costa Canal are not certified to flood control standards established by the Federal Emergency Management Agency (FEMA). An engineering and geotechnical study completed in 2002 confirmed the vulnerability of the berms and levees to a significant seismic event. The soils along the sides of the Canal were not engineered for flood protection. Development in select locations along the Canal would be vulnerable without sufficient flood protection in the event of elevated water stages in the Delta. The Project will replace approximately 4,000 feet of the Canal with a pipeline from the headworks of the Rock Slough intake and eliminating associated Canal embankments which were not designed for flood protection, but are currently relied upon for that purpose.
Secondary	Other	0	Currently, the open Canal presents a risk for drowning or other accidents. This is of particular concern because the area is being developed rapidly for residential use, with up to 8,000 homes planned for the area and 25,000 residents. Enclosing the Canal will completely eliminate this risk. According to CCWD's records, there have been a total of 70 drownings in the Canal since 1942. The Project will eliminate the risk of drowning along the 4,000 feet of open canal replaced by a pipeline.
Secondary	Other	0	Currently, the open Canal presents a risk for drowning or other accidents. This is of particular concern because the area is being developed rapidly for residential use, with up to 8,000 homes planned for the area and 25,000 residents. Enclosing the Canal will completely eliminate this risk. According to CCWD's records, there have been a total of 70 drownings in the Canal since 1942. The Project will eliminate the risk of drowning along the 4,000 feet of open canal replaced by a pipeline.
Secondary	Other	0	Currently, the open Canal presents a risk for drowning or other accidents. This is of particular concern because the area is being developed rapidly for residential use, with up to 8,000 homes planned for the area and 25,000 residents. Enclosing the Canal will completely eliminate this risk. According to CCWD's records, there have been a total of 70 drownings in the Canal since 1942. The Project will eliminate the risk of drowning along the 4,000 feet of open canal replaced by a pipeline.
Secondary	Water Storage -- Surface-Water Supply Enhancement	4590	There is a water quality standard station at Rock Slough, and the CVP & SWP are operated to meet that chloride concentration standard by releasing stored water from upstream as necessary. Replacing the unlined Canal with a pipeline will lead to reduced salinity at Rock Slough Intake. Improving the water quality at Rock Slough will mean less water must be released from upstream reservoirs to meet the standard. Thus, encasing the Canal will decrease the amount of water upstream reservoirs must release to meet the Rock Slough water quality standard by approximately 3,950 AFY. In addition, the Project will decrease the amount of water released from Los Vaqueros Reservoir in order to meet CCWD's customer water quality delivery goals by approximately 580 AFY.

			Evaporative losses will also decrease by an estimated 60 AFY saved per year. Combined, there is a total water supply benefit of 4,590 AFY.
Tertiary	Ecosystem: Riparian Habitat	1166	Completion of the full Project will allow the completion of the Department of Water Resources' (DWR's) Dutch Slough Tidal Marsh Restoration Project. DWR's Dutch Slough Tidal Marsh Restoration Project will restore a tidal wetland just to the north of the Project. The Project is a critical early action to improve the ecosystem health of the Sacramento-San Joaquin Delta. Completion of DWR's Dutch Slough Tidal Marsh Restoration Project is legislatively mandated (SBX7-1 Section 85085) and dependent on the construction of 11,000 ft of the pipeline adjacent to the Dutch Slough project site.
Quaternary	Ecosystem: Shallow Water/ Marsh/ Wetland Habitat	47	Completed environmental mitigation has included 47 acres of wetland habitat in the adjacent Holland Tract.
Quaternary	Ecosystem: Upland Habitat	98	Completed environmental mitigation has included 98 acres of upland habitat.

Budget

Other Contribution	0
Local Contribution	10000000
Federal Contribution	0
Inkind Contribution	0
Amount Requested	10000000
Total Project Cost	20000000

Geographic Information

Latitude DD(+/-)	37	MM 59	SS 2		
Longitude DD(+/-)	121	MM 39	SS 7		
Longitude/Latitude Clarification	Long: -121.652, Lat: 37		Location	from Rock Slough intak	

County	Contra Costa
Ground Water Basin	San Joaquin Valley-Tracy
Hydrologic Region	San Joaquin
WaterShed	San Joaquin Delta

Legislative Information

Assembly District	11th Assembly District,15th Assembly District
Senate District	7th Senate District
US Congressional District	District 10 (CA)

Section : Applicant Information Question Tab

APPLICANT INFORMATION QUESTION TAB

Q1. PROPOSAL DESCRIPTION

Provide a brief abstract of the Proposal, including a listing of individual project titles or types.

The full, five-phased Contra Costa Canal Levee Elimination and Flood Protection Project (Project) will replace 21,000 feet of the unlined Contra Costa Canal (the Canal) with a pipeline to improve source water quality available to the Contra Costa Water District (CCWD) by preventing intrusion of poor quality groundwater; eliminate up to eight miles of aging Canal embankments (unconsolidated dredging spoils from the original construction) that were not designed to provide flood protection and are not seismically sound; improve security and public safety by preventing access to the open water Canal; and install a Canal flood isolation structure that, combined with the pipeline project, will enable CCWD to remotely isolate the Canal from the San Joaquin-Sacramento River Delta in the event of a levee breach. Phase 1 of the Project, encasement of the Canal from Pump Plant #1 to Marsh Creek, was completed in 2009. The proposed Project is Phase 5 of the full Project, and involves replacing approximately 4,000 feet of the Canal with a pipeline from the headworks of the Rock Slough intake and eliminating associated Canal embankments. The proposed Project includes installation of a Canal flood isolation structure that, combined with the pipeline project, will enable CCWD to remotely isolate the Canal from the San Joaquin-Sacramento River Delta in the event of a levee breach. This Project represents a critical component of CCWD???s seismic reliability program, as historical geotechnical investigations of the Canal system have indicated that the levees in the unlined portion of the Canal and the foundation are highly prone to liquefaction in the event of an earthquake (Seismic Reliability Improvements Project 1997, Geotechnical Engineering Report Intake Channel Levees Contra Costa Canal 2000, Geotechnical Engineering Investigation Contra Costa Water District Canal Replacement Project 2007).

Q2. PROJECT DIRECTOR

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Marie Valmores, P.E. Contra Costa Water District P.O. Box H2O Concord, CA 94524 (925) 688-8132 mvalmores@ccwater.com

Q3. PROJECT MANAGEMENT

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Marie Valmores, P.E. Contra Costa Water District P.O. Box H2O Concord, CA 94524 (925) 688-8132 mvalmores@ccwater.com

Q4. APPLICANT INFORMATION

Provide the agency name, address, city, state, and zip code of the applicant submitting the application. Also provide the name and contact information of the person filling out the online application.

Contra Costa Water District P.O. Box H2O Concord, CA 94524

Q5. ADDITIONAL INFORMATION

Provide the funding area(s) in which projects are located.

http://www.water.ca.gov/irwm/integregio_fundingarea.cfm

San Joaquin River

Q6. RESPONSIBLE REGIONAL WATER QUALITY CONTROL BOARD (S)

List the name of the Regional Water Quality Control Board (RWQCB) in which your proposal is located. For a region that extends beyond more than one RWQCB boundary, list the name of each Board.
http://www.waterboards.ca.gov/waterboards_map.shtml

Central Valley RWQCB (Region 5), San Francisco Bay RWQCB (Region 2)

Q7. ELIGIBILITY

Is the application from an IRWM planning region approved in the RAP (See Section II B, Table 1)? If yes, include the name of the IRWM planning region. If not, explain.

Yes - East Contra Costa County

Q8. ELIGIBILITY

Is the applicant a local agency or non-profit organization as defined in Appendix B of the Grant Guidelines?

Yes

Q9. ELIGIBILITY

List the urban water suppliers that will receive funding from the proposed grant. Those listed must submit self certification of compliance with CWC §525 et seq. and AB 1420. If there are none, so indicate and you do not have to answer Q10 and Q11.

Contra Costa Water District

Q10. ELIGIBILITY

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2005 Urban Water Management Plans (UWMP) to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete UWMP. Will all of the urban water suppliers listed in Q9, along with any additional urban water suppliers that meet the urban water supplier definition threshold for the first time, submit updated 2010 UWMPs, consistent with the 2010 UWMP Guidebook and verified as complete by DWR, before the execution of a grant agreement? If not, explain.

Yes

Q11. ELIGIBILITY

Have any urban water suppliers listed in Q9 recently submitted AB 1420 compliance tables and supporting documentation to DWR for a different grant program within the past three months? If so, please list the urban water supplier and the grant program. An urban water supplier must submit AB 1420 compliance documentation to DWR. If the urban water supplier has not submitted AB 1420 documentation, or that documentation was determined to be incomplete by DWR, the urban water supplier's projects will not be considered eligible for grant funding. Refer to Section IIIB of the Guidelines for additional information.

Contra Costa Water District (CCWD) submitted self-certification information on May 28, 2010, which was approved by the Department of Water Resources (DWR). The letter from DWR confirming such approval is provided in Attachment 12. In an email received on March 8, 2001, Baryohay Davidoff of DWR stated that it would be acceptable for CCWD to provide a letter certifying no changes in status have occurred since the May 10, 2010 submittal, and that CCWD is on schedule as provided in the previous approval, in lieu of completing additional self-certification tables which would require further review by DWR. CCWD has provided a letter to this effect, included in Attachment 12.

Q12. ELIGIBILITY

(s) and list the agency(ies) that will implement the project(s).

The project included within this proposal does not include groundwater recharge or groundwater management and does not have any direct positive or negative impacts to local groundwater sources.

Q13.
ELIGIBILITY

For the agency(ies) listed in Q12, how has the agency complied with CWC §10753 regarding GWMPs, as described in Section III.B of the Grant Guidelines?

Not applicable

Q14:
ELIGIBILITY

Does the applicant have a Stormwater Resources Plan developed pursuant to Part 2.3 (commencing with Section 10560) of Division 6 of the Water Code, or an IRWM Plan that includes the Stormwater Resources Plan requirements specified in Section 10562 of the Water Code? Please answer yes or no. If yes, please answer Question 15 or 16, as applicable.

a) ☐ Yes
b) ☑ No

Q15:
ELIGIBILITY

For applicants with a Stormwater Resources Plan, does that Plan meet the standards set forth in Part 2.3 of Division 6 of the CWC? If yes, provide attachment 13.

a) ☐ Yes
b) ☐ No

Q16:
ELIGIBILITY

For applicants with an IRWM Plan, does that Plan include the Stormwater Resources Plan requirements specified in Section 10562 of the CWC? If yes, provide attachment 13.

a) ☐ Yes
b) ☑ No

NOTES TO BMS ADMINISTRATOR

Provide notes about any potential problems you may have had with BMS that are particular to your application.

Section : Application Attachments Tab

APPLICATION ATTACHMENTS TAB

ATTACHMENT 1: AUTHORIZATION AND ELIGIBILITY REQUIREMENTS

Upload Authorization and Eligibility documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att1_SWF_Eligible_1of1.pdf

Upload additional Authorization and Eligibility documentation here.

Upload additional Authorization and Eligibility documentation here. **Upload additional Authorization and Eligibility documentation here.**

Upload additional Authorization and Eligibility documentation here.

ATTACHMENT 2: ADOPTED PLAN AND PROOF OF FORMAL ADOPTION

Upload Proof of Formal Adoption documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att2_SWF_Adopt_1of1.pdf

Upload additional Proof of Formal Adoption documentation here. **Upload additional Proof of Formal Adoption documentation here.**

Upload additional Proof of Formal Adoption documentation here. **Upload additional Proof of Formal Adoption documentation here.**

ATTACHMENT 3: WORK PLAN

Upload the Work Plan here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att3_SWF_WorkPlan_1of3.pdf

Upload additional work plan components here.
Last Uploaded Attachments: Att3_SWF_WorkPlan_2of3.zip

Upload additional work plan components here. **Upload additional work plan components here.**
Last Uploaded Attachments: Att3_SWF_WorkPlan_3of3.zip

Upload additional work plan components here.

ATTACHMENT 4: BUDGET

Upload the Budget here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att4_SWF_Budget_1of1.pdf

Upload additional budget components here. **Upload additional budget components here.**

Upload additional budget components here. **Upload additional budget components here.**

ATTACHMENT 5: SCHEDULE

Upload the Schedule here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att5_SWF_Schedule_1of1.pdf

Upload additional schedule components here.

Upload additional schedule components here. **Upload additional schedule components here.**

Upload additional schedule components here.

ATTACHMENT 6: MONITORING, ASSESSMENT, AND PERFORMANCE MEASURES

Upload Monitoring, Assessment, and Performance Measures here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att6_SWF_Measures_1of1.pdf

Upload additional Monitoring, Assessment, and Performance Measures here. **Upload additional Monitoring, Assessment, and Performance Measures here.**

Upload additional Monitoring, Assessment, and Performance Measures here. **Upload additional Monitoring, Assessment, and Performance Measures here.**

ATTACHMENT 7: ECONOMIC ANALYSIS - FLOOD DAMAGE REDUCTION COSTS AND BENEFITS

Upload Economic Analysis - Flood Damage Reduction Costs and Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att7_SWF_DReduc_1of2.pdf

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.
Last Uploaded Attachments: Att7_SWF_DReduc_2of2.zip

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here. **Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.**

Upload additional Economic Analysis - Flood Damage Reduction Costs and Benefits documentation here.

ATTACHMENT 8: ECONOMIC ANALYSIS - WATER SUPPLY COSTS AND BENEFITS

Upload Economic Analysis - Water Supply Costs and Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).
Last Uploaded Attachments: Att8_SWF_WSBen_1of1.pdf

Upload additional - Water Supply Costs and Benefits documentation here. **Upload additional - Water Supply Costs and Benefits documentation here.**

Upload additional - Water Supply Costs and Benefits documentation here. **Upload additional - Water Supply Costs and Benefits documentation here.**

Section : Application Attachments Tab (cont)

APPLICATION ATTACHMENTS TAB (CONT)

ATTACHMENT 9: WATER QUALITY AND OTHER EXPECTED BENEFITS

Upload Water Quality and Other Expected Benefits here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att9_SWF_WQOtherBen_1of1.pdf

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

Upload additional Water Quality and Other Expected Benefits documentation here.

ATTACHMENT 10: COSTS AND BENEFITS SUMMARY

Upload Costs and Benefits Summary here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att10_SWF_CBSummary_1of1.pdf

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

Upload additional Costs and Benefits Summary documentation here.

ATTACHMENT 11: PROGRAM PREFERENCES

Upload Program Preference documentation here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att11_SWF_Preference_1of1.pdf

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

Upload additional Program Preference documentation here.

ATTACHMENT 12: AB1420 AND WATER METER COMPLIANCE INFORMATION

Upload AB1420 and Water Meter Compliance Information here. Ensure file name is consistent with section V of the Stormwater Flood Management PSP (disregard the 5 digit pin).

Last Uploaded Attachments: Att12_SWF_Compliance_1of1.pdf

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

Upload additional AB1420 and Water Meter Compliance documentation here.

ATTACHMENT 13: STORMWATER RESOURCES PLAN

This attachment is only necessary if the applicant has an existing Stormwater Resources Plan, pursuant (commencing with Section 10560) of Division 6 of the Water Code and answered "yes" to Q15 or Q16.

The summary text must be no more than 5 pages in length using a minimum of 10-point type font. Excerpts from the Plan must not exceed 15 pages.

Attachment 13 must provide the following:

Identify and include portions of the applicable Plan that demonstrate all of the standards of Part 2.3 (commencing with Section 10560) of Division 6 of the CWC.

Last Uploaded Attachments: Att13_SWF_Strmrespln_1of1.pdf

Upload additional Stormwater Resources Plan documentation here.

Upload additional Stormwater Resources Plan documentation here.

Upload additional Stormwater Resources Plan documentation here.

Upload additional Stormwater Resources Plan documentation here.